

# WEST Search History for Application 10591796

Creation Date: 2009090717:01

## Prior Art Searches

| Query  | DB                           | Op. | Plur. | Thes. | Date       |
|--|------------------------------|-----|-------|-------|------------|
| <b>\$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam</b>                     | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES   |       | 09-07-2009 |
| <b>polyvinylpyrrolidone or polyvinylactam</b>  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES   |       | 09-07-2009 |
| <b>(polyvinylpyrrolidone or polyvinylactam )</b>   | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES   |       | 09-07-2009 |
| <b>(water or aqueous) near5 dispersion</b>   | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES   |       | 09-07-2009 |
| <b>(organic or inorganic) near5 salt</b>   | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES   |       | 09-07-2009 |
| <b>dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid)</b> | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES   |       | 09-07-2009 |
| <b>\$2vinyl\$3pyrrolidone</b>  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES   |       | 09-07-2009 |
|  |                              | ADJ | YES   |       | 09-07-2009 |

|  |                              |     |     |  |            |
|--|------------------------------|-----|-----|--|------------|
| ( <b>\$2vinyl\$3pyrrolidone</b> ) or ( <b>\$2vinylpyrrolidone</b> or ( <b>\$2vinyl pyrrolidone</b> ) or <b>\$2caprolactam</b> ) or ( <b>polyvinylpyrrolidone</b> or <b>polyvinylactam</b> )  | PGPB, USPT, EPAB, JPAB, DWPI |     |     |  |            |
| ( <b>\$2vinyl\$3pyrrolidone</b> or <b>\$2vinylpyrrolidone</b> or ( <b>\$2vinyl pyrrolidone</b> ) or <b>\$2caprolactam</b> or <b>polyvinylpyrrolidone</b> or <b>polyvinylactam</b> ) and (( <b>water</b> or <b>aqueous</b> ) near <b>5 dispersion</b> )   | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ( <b>\$2vinyl\$3pyrrolidone</b> or <b>\$2vinylpyrrolidone</b> or ( <b>\$2vinyl pyrrolidone</b> ) or <b>\$2caprolactam</b> or <b>polyvinylpyrrolidone</b> or <b>polyvinylactam</b> and ( <b>water</b> or <b>aqueous</b> ) near <b>5 dispersion</b> ) .ab.   | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ( <b>\$2vinyl\$3pyrrolidone</b> or <b>\$2vinylpyrrolidone</b> or ( <b>\$2vinyl pyrrolidone</b> ) or <b>\$2caprolactam</b> or <b>polyvinylpyrrolidone</b> or <b>polyvinylactam</b> ) same (( <b>water</b> or <b>aqueous</b> ) near <b>5 dispersion</b> )  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ( <b>\$2vinyl\$3pyrrolidone</b> or <b>\$2vinylpyrrolidone</b> or ( <b>\$2vinyl pyrrolidone</b> ) or <b>\$2caprolactam</b> or <b>polyvinylpyrrolidone</b> or <b>polyvinylactam</b> same ( <b>water</b> or <b>aqueous</b> ) near <b>5 dispersion</b> ) .ab.  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ( <b>\$2vinyl\$3pyrrolidone</b> or <b>\$2vinylpyrrolidone</b> or ( <b>\$2vinyl pyrrolidone</b> ) or <b>\$2caprolactam</b> or <b>polyvinylpyrrolidone</b> or <b>polyvinylactam</b> same ( <b>water</b> or <b>aqueous</b> ) near <b>5 dispersion</b> .ab. ) and (( <b>organic</b> or <b>inorganic</b> ) near <b>5 salt</b> ) and ( <b>dispersant</b> or ( <b>dispersing agent</b> ) or ( <b>dispersion stabilizer</b> ) or ( <b>protective colloid</b> ) ) | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| <b>produc\$5 or prepar\$5</b>  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ( <b>produc\$5 or prepar\$5</b> ) same ( <b>\$2vinyl\$3pyrrolidone</b> or <b>\$2vinylpyrrolidone</b> or ( <b>\$2vinyl pyrrolidone</b> ) or <b>\$2caprolactam</b> or <b>polyvinylpyrrolidone</b> or <b>polyvinylactam</b> same ( <b>water</b> or <b>aqueous</b> ) near <b>5 dispersion</b> )  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ( <b>produc\$5 or prepar\$5</b> same <b>\$2vinyl\$3pyrrolidone</b> or <b>\$2vinylpyrrolidone</b> or ( <b>\$2vinyl pyrrolidone</b> ) or <b>\$2caprolactam</b> or <b>polyvinylpyrrolidone</b> or <b>polyvinylactam</b> same ( <b>water</b> or <b>aqueous</b> ) near <b>5</b>   | PGPB, USPT, EPAB, JPAB,      | ADJ | YES |  | 09-07-2009 |

|  |                              |     |     |  |            |
|--|------------------------------|-----|-----|--|------------|
| dispersion ) and ((organic or inorganic) near5 salt ) and (dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) )   | DWPI                         |     |     |  |            |
| ((water or aqueous) near5 dispersion ) .ab.  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| (\$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam ) .ab.  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| (\$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam .ab. ) and (produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) )  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ((water or aqueous) near5 dispersion .ab. ) and (produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) )  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ((water or aqueous) near5 dispersion .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) ) or (\$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) ) | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |

|  |                              |     |     |  |            |
|--|------------------------------|-----|-----|--|------------|
| <p>((water or aqueous) near5 dispersion .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) or \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) ) not (\$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion .ab. and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) )</p>                  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| <p>((water or aqueous) near5 dispersion .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) or \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) not \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion .ab. and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) ) and @ad&lt;20040416</p> | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| <p>((water or aqueous) near5 dispersion .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or</p>  | PGPB, USPT, EPAB,            | ADJ | YES |  | 09-07-2009 |

|   |                              |     |     |  |            |
|---|------------------------------|-----|-----|--|------------|
| <p>\$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) or \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) not \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam same (water or aqueous) near5 dispersion .ab. and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) and @ad&lt;20040416 ) and (\$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam .ab. )</p> | JPAB, DWPI                   |     |     |  |            |
| salt  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| (salt ) and (\$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam same (water or aqueous) near5 dispersion .ab. ) and (dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) )   | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| (salt and \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam same (water or aqueous) near5 dispersion .ab. and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) ) and (\$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam .ab. )   | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| (salt and \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinyl lactam same (water or aqueous) near5 dispersion .ab. and dispersant or (dispersing agent) or (dispersion stabilizer) or  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |

|  |                              |     |     |  |            |
|--|------------------------------|-----|-----|--|------------|
| (protective colloid) and \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam .ab. ) and @ad<20040416   |                              |     |     |  |            |
| US-6426383-B1.did.   | USPT                         | ADJ | YES |  | 09-07-2009 |
| US-6426383-B1.did.   | USPT                         | ADJ | YES |  | 09-07-2009 |
| (salt ) not (salt and \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion .ab. and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) and \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam .ab. and @ad<20040416 )  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| (salt ) not (salt and \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion .ab. and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) and \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam .ab. and @ad<20040416 )  | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |
| ((water or aqueous) near5 dispersion .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) or \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam .ab. and produc\$5 or prepar\$5 same \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) not \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone or polyvinylactam same (water or aqueous) near5 dispersion .ab. and (organic or inorganic) near5 salt and dispersant or (dispersing agent) or (dispersion stabilizer) or (protective colloid) and @ad<20040416 ) not (salt and | PGPB, USPT, EPAB, JPAB, DWPI | ADJ | YES |  | 09-07-2009 |

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <p> \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl<br/> pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone<br/> or polyvinylactam same (water or aqueous) near5<br/> dispersion .ab. and dispersant or (dispersing agent) or<br/> (dispersion stabilizer) or (protective colloid) and<br/> \$2vinyl\$3pyrrolidone or \$2vinylpyrrolidone or (\$2vinyl<br/> pyrrolidone) or \$2caprolactam or polyvinylpyrrolidone<br/> or polyvinylactam .ab. and @ad&lt;20040416 ) </p> |  |  |  |  |  |
|--|--|--|--|--|--|